
Section 5

Crosswalk to Past Conveyance Planning Documents

5.1 Crosswalk to Identified Capacity Needs

This section is a cross-walk between the regional **conveyance system needs** identified in this technical memorandum to the **conveyance improvement projects** listed in the June 2004 technical memorandum, *Summary of Non-Brightwater Conveyance Cost Increases from the 1998 Regional Wastewater Services Plan to the 2004 Regional Wastewater Services Plan Update*, and the projects listed in the March 2005 *Regional Needs Assessment Report (RNA)*.

The RWSP, the 2004 RWSP Update, and the RNA contained proposed conveyance improvement projects, planning level costs, and schedules for implementation of the projects that spread the costs between 1998 and 2030 and, in the case of the RNA, out to 2050. Because this technical memorandum focuses only on conveyance system needs, a direct crosswalk between it and previous conveyance planning documents is difficult. This is because an identified conveyance system need may require multiple improvement projects and, occasionally, a single improvement project may solve multiple conveyance system needs.

Note

This technical memorandum identifies needs based only on capacity constraints and conditions. It does not identify project solutions and their estimated costs. This work will be completed in 2006 and will include the development of project alternatives, cost estimates, the selection of a preferred project alternative for each identified need, and an implementation schedule.

Two examples follow:

- The current Bellevue Pump Station/Force Main project will address capacity and reliability issues at the Bellevue Pump Station, and the rerouting of the force main directly to the East Side Interceptor will delay the need to address capacity issues in the Swayolocken Pump Station system.
- Addressing capacity needs in the south Lake Sammamish Planning area will require a series of phased projects aimed at ensuring capacity along the Issaquah interceptors, Sunset/Heathfield pump stations and Vasa Park force mains, and the Eastgate and Lake Hills Interceptors.

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Table 5-1 below is a crosswalk that shows the relationship between the conveyance system capacity needs identified in this technical memorandum and the planned projects listed in Table 4, Page 6 of the 2004 RWSP Update and Table 4-1 of the RNA. The RNA projects include the project number from Table 4-1 in parentheses.

There are several conveyance needs identified in this technical memorandum that were not previously identified during the development of the 2004 RWSP Update or the RNA. Ongoing hydraulic analysis and review of conveyance system performance have identified additional capacity constraints. In one case, the current Bellevue Pump Station project was inadvertently left off of the RNA Table 4-1. This technical memorandum focuses on needs and does not include information about alternative conveyance system projects that may have positive downstream affects that can eliminate a conveyance need.

Table 5-1 organizes identified conveyance needs by planning basin. Each identified need has a unique map identification number that corresponds to the capacity constraint maps for each planning basin contained in Section 2 of this technical memorandum (Figures 2-3 through 2-14).

Table 5-1. Conveyance System Capacity Needs by Planning Basin

Map ID #	Identified Conveyance Need	June 2004 RWSP Update Table 4	March 2005 Regional Needs Assessment Table 4-1
Hidden Lake Planning Basin (Figure 2-3)			
1	Hidden Lake Pump Station/Boeing Creek Trunk	Hidden Lake Pump Station/Boeing Trunk	Hidden Lake Pump Station/ Boeing Trunk (14)
2	Richmond Beach Pump Station/Richmond Beach Force Main	Hidden Lake Pump Station/Boeing Trunk	Hidden Lake Pump Station/ Boeing Trunk (14)
3	Richmond Beach Interceptor	Hidden Lake Pump Station/Boeing Trunk	Hidden Lake Pump Station/ Boeing Trunk (14)
Northeast Lake Washington Planning Basin (Figure 2-4)			
4	Bellevue Pump Station/Bellevue Force Main	Bellevue Pump Station	Not Identified
5	Bellevue Interceptor	Bellevue Pump Station	North Mercer and Enatai Interceptors (30)
6	Enatai Interceptor	Bellevue Pump Station	North Mercer and Enatai Interceptors (30)
7	Wilburton Pump Station/Factoria Trunk	Not Identified	Factoria Trunk and Wilburton Upgrade (35)
8	Holmes Point Trunk	Juanita Bay Pump Station	Juanita Bay Pump Station (12)
9	Juanita Bay Pump Station	Juanita Bay Pump Station	Juanita Bay Pump Station (12)
10	Kirkland Pump Station/Kirkland Force Main	Not Identified	Kirkland Pump Station and Force Main Upgrade (15)
11	Lake Hills Interceptor	Not Identified	Not Identified
12	Medina Force Main	Not Identified	Medina New Storage (42)
13	Medina Trunk	Not Identified	Medina Trunk Minor Upgrade (31)

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Map ID #	Identified Conveyance Need	June 2004 RWSP Update Table 4	March 2005 Regional Needs Assessment Table 4-1
14	North Mercer Island Interceptor	North Mercer Island	North Mercer and Enatai Interceptors (30)
15	Sweyolocken Pump Station/Sweyolocken Force Main	Bellevue Pump Station	North Mercer and Enatai Interceptors (30)
North Green River Planning Basin (Figure 2-5)			
16	North Soos Creek Interceptor	Not Identified	North Soos Creek Interceptor (39)
17	Rainier Vista Trunk	Not Identified	Rainier Vista Trunk (45)
18	South Renton Trunk	Not Identified	South Renton Interceptor (60)
North Lake Sammamish Planning Basin (Figure 2-6)			
19	Lake Hills Trunk	Not Identified	Lake Hills Trunk Fourth Barrel Addition (47)
20	NW Lake Sammamish Interceptor	Not Identified	Northwest Lake Sammamish Interceptor (44)
North Lake Washington Planning Basin (Figure 2-7)			
21	North Creek Trunk	North Creek NC3-A	North Creek 1-A, 2-A, 3-A, and North Creek Trunk (17, 48, 56, and 61)
22	Swamp Creek Trunk	Not Identified	Swamp Creek Parallel - Section 1B (49)
23	York Pump Station Modification	York Pump Station Capacity to 68 MGD	York Pump Station Subtotal (10)
Northwest Lake Washington Planning Basin (Figure 2-8)			
24	Thornton Creek Interceptor	Thornton Interceptor (3 projects)	Thornton Creek Interceptor - Section 1 and 2 (32)
Southeast Lake Washington Planning Basin (Figure 2-9)			
25	Coal Creek Trunk	Coal Creek (2 projects)	Coal Trunk Replacement (34)
South Green River Planning Basin, Kent Planning Zone (Figure 2-10)			
26	Auburn Interceptor-Section 1	New Auburn Interceptor - Section 1 Replacement	Kent Auburn CSI Projects (18, 19, 20, 21, 22, 38, 46, 55)
27	Auburn Interceptor-Section 2	New Auburn Interceptor - Section 2 Replacement	Kent Auburn CSI Projects (18, 19, 20, 21, 22, 38, 46, 55)
28	Auburn Interceptor-Section 3	Not Identified	Kent Auburn CSI Projects (18, 19, 20, 21, 22, 38, 46, 55)
29	Garrison Creek Trunk	Not Identified	Garrison Creek Trunk (46)
30	Kent Cascade Interceptor	Not Identified	Soos Creek CSI Projects (23, 25, 43)
31	Mill Creek Interceptor	Mill Creek Relief Interceptor	Mill Creek Relief Sewer (38)
32	ULID #1 – Contract #5 Kent	Not Identified	Kent Auburn CSI Projects (18, 19, 20, 21, 22, 38, 46, 55)

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Map ID #	Identified Conveyance Need	June 2004 RWSP Update Table 4	March 2005 Regional Needs Assessment Table 4-1
33	ULID #1 – Contract #4 Kent	Not Identified	Kent Auburn CSI Projects (18, 19, 20, 21, 22, 38, 46, 55)
South Green River Planning Basin, Auburn Planning Zone (Figure 2-11)			
34	Pacific Pump Station/Algona Pacific Trunk	Not Identified	Pacific Pump Station (9), Algona Pacific Trunk Sage 1 and 2 (50, 60)
35	Auburn - West Interceptor	Not Identified	Kent Auburn CSI Projects (18, 19, 20, 21, 22, 38, 46, 55)
36	Auburn - West Valley Interceptor	Not Identified	Kent Auburn CSI Projects (18, 19, 20, 21, 22, 38, 46, 55)
37	Lakeland Hills Pump Station	Not Identified	Lakeland Trunk (57), Lakeland Hills Pump Station Upgrade (63)
38	M Street Trunk	Not Identified	Kent Auburn CSI Projects (18, 19, 20, 21, 22, 38, 46, 55)
39	West Valley Interceptor	Not Identified	Kent Auburn CSI Projects (18, 19, 20, 21, 22, 38, 46, 55)
South Green River Planning Basin, Soos Planning Zone (Figure 2-12)			
40	Black Diamond Pump Station/Black Diamond Trunk	Implementation of Previous Comp Plans	Soos Creek CSI Projects (23, 25, 43)
South Lake Sammamish Planning Basin (Figure 2-13)			
41	Eastgate Interceptor	South Sammamish CSI Projects	South Sammamish CSI Projects (28, 36, 51, 52)
42	Issaquah Creek Interceptor	South Sammamish CSI Projects	South Sammamish CSI Projects (28, 36, 51, 52)
43	Issaquah Interceptor - Section 1	South Sammamish CSI Projects	South Sammamish CSI Projects (28, 36, 51, 52)
44	Issaquah Interceptor - Section 2	South Sammamish CSI Projects	South Sammamish CSI Projects (28, 36, 51, 52)
45	Sunset Heathfield Pump Stations/Vasa Park Force Mains	SLS: Minor Pump Station Improvements	South Sammamish CSI Projects (28, 36, 51, 52)
South Lake Washington Planning Basin (Figure 2-14)			
46	Bryn Mawr Trunk	Not Identified	Bryn Mawr Storage (33)
47	ESI 1	Not Identified	Not Identified
48	ESI 3	Not Identified	Not Identified

5.2 Facility Acquisitions and Extensions

Both the 2004 RWSP Update and the RNA listed other actions and activities that include the acquisition of facilities and extension of interceptors. These facility costs and any subsequent upgrades to these facilities become part of the CSI program. Recent examples include:

- the acquisition of the North Creek and Swamp Creek trunks from Alderwood Water and Wastewater District
- an interceptor extension being constructed by the Sammamish Plateau Water and Sewer District that will become part of the regional conveyance system upon completion in early 2006.

There are currently two acquisitions being considered by the County:

- Juanita Creek Trunk/ULID #5 in Northshore Utility District
- Central Plateau Interceptor recently constructed by the City of Renton in conjunction with a King County Roads Division Project.